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PTO/SB/05 (4/98)
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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. § 1.53(b))

Attorney Docket No. _____

First Inventor or Application Identifier _____

Title _____

Express Mail Label No. _____

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. ☒ * Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)

2. ☒ Specification [Total Pages]
(preferred arrangement set forth below)

- Descriptive title of the invention
- Cross References to Related Applications
- Statement Regarding Fed sponsored R & D
- Reference to Microfiche Appendix

- Background of the invention
- Brief Summary of the invention
- Brief Description of the Drawings (if filed)

- Detailed Description
- Claim(s)
- Abstract of the Disclosure

3. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets

4. Oath or Declaration [Total Pages

- a. ☐ Newly executed (original or copy)
- b. ☐ Copy from a prior application (37 C.F.R. § 1.63(d))
(for continuation/divisional with Box 16 completed)
 - i. ☐ **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).

* NOTE FOR ITEMS 1 & 13: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28).

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

5. ☒ Microfiche Computer Program (Appendix)
6. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
- a. ☒ Computer Readable Copy
 - b. ☒ Paper Copy (identical to computer copy)
 - c. ☐ Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

- 7. ☐ Assignment Papers (cover sheet & document(s))
- 8. ☐ 37 C.F.R. § 3.73(b) Statement ☐ Power of Attorney
(when there is an assignee)
- 9. ☐ English Translation Document (if applicable)
- 10. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
- 11. ☐ Preliminary Amendment
- 12. ☐ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
- 13. ☐ * Small Entity Statement(s) ☐ Statement filed in prior application, Status still proper and desired
(PTO/SB/09-12)
- 14. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)
- 15. ☐ Other: _____

16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No: _____
Prior application information: Examiner _____ Group / Art Unit: _____

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

17. CORRESPONDENCE ADDRESS

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Name (Print/Type)

J. MICHAEL PITALE

Registration No. (Attorney/Agent)

Signature

J. Michael Pitale

Date

2/2/2000

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J. Michael Pitale
24 Shannon Court
Medford, NJ 08055
February 22, 2000

Assistant Commissioner
For Patents
Washington, DC 20231

Dear Examiner,

The following is a listing of the enclosed documents pertaining to the computer procedure/program entitled ATM/ALERT:

A - Title, description and background	- Cover Page plus 3 pages
B - Schematic diagram/flowchart	- One page
C - Paper copy of program in Assembler language	- 3 pages
D - Paper copy of program in COBOL language	- 3 pages
E - Actual computer listing Assembler language	- 6 pages
F - Actual computer listing COBOL language	- 10 pages
G - Microfiche listing of 'E' above	- One sheet
H - Microfiche listing of 'F' above	- One sheet

I hope this information will help in the review process.

Also I am a senior citizen on disability who has to minimize costs, so I am filing this without an attorney. If there are any omissions or corrections, please advise and I will immediately respond.

Sincerely,



J. Michael Pitale

Phone - (609) 654-4583
Fax - (609) 714-0868

ATM/ALERTTM



Computer Security Protection

For Responsive Action To

ATM Transactions And

Other Security Accesses

Made Under Duress

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ATM/ALERT

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INTRODUCTION

ATM/ALERT procedure was first developed for the security access of ATM transactions which only used PIN numbers as the form of identification. Subsequent enhancements to ATM/ALERT have made it effective for many different types of identification now in operation other than just PIN numbers. Iris Scans, Thumb Prints, Facial Scans and other methods of identification are now available along with PIN numbers.

FUNCTIONS

ATM/ALERT has two functions which are as follows:

- To recognize a valid identification which will then allow the requested action of an ATM transaction, access to a secured area, etc.
and/or
- To recognize an 'alert' signal issued by the user who is under duress which will then activate security measures such as a silent alarm or whatever is deemed appropriate action. In some circumstances, the requested function could still be allowed to prevent a warning that the alarm has been activated.

METHODOLOGY

The methodology requires two types of ID's with one a valid identification and the other for alert indication. These two ID's may be any two methods not necessarily the same. For example, a valid ID might be an IRIS Scan that could be combined with the alert signal generated by the entering of an alert PIN and so forth.

Depending on the method of providing identification, the first encounter with the identification might be sufficient to provide a valid status....or an alert condition. For example, if two PIN numbers are used, one for valid status and the other for alert status, the first-time entry of a PIN number would be sufficient to determine if this is a valid entry or the alert entry and the second entry would not be needed..

However, perhaps the first-time entry of another method of identification, such as an Iris scan, might not by itself have enough ability to signal a valid/alert condition. A subsequent entry of another identification such as a PIN number might also be required to signal the status. A valid Iris scan combined with a valid PIN number would grant the requested action, while a valid Iris scan combined with an alert PIN number would signal the alert status. Therefore, in certain combinations of providing identification, an 'second ID required' indication would be part of the ATM/ALERT procedure.

SOFTWARE CODING

ATM/ALERT has been coded in two main-frame languages, COBOL and Assembler. However, it is easily translated into any other media including coding for the P/C environment.

The methodology of ATM/ALERT is to perform 'traffic control' for most of the already in-place computer activity. It goes back and forth with functions such acquiring the identification and checking for valid/alert status by the established software. Then the valid/alert status indication is passed from the established software back to ATM/ALERT which will make the determination of returning control to the established function to allow the requested action or notifying the established software to activate the appropriate alert action. ATM/ALERT 'traffic control' functions could also be incorporated directly into the already established software coding with little effort.

Selection of type of identification, appropriate actions and so forth are the choice of the user company/network and may even vary from user to user.

EXAMPLES

- #1 - A PIN number is used for the first-time identification. It would be checked against two PIN numbers, one valid and the other an alert signal to determine status. If a valid number, the requested action is performed. If it is the alert number, perform the alert action. In this situation, only the first-time entry of identification would be needed..
- #2 - An Iris Scan is used as the first ID. If there is the possibility of being able to use both the left and the right eye for different Iris scans, then the right eye could be used for first-time proper validation or the left eye used for the alert signal or vice versa. In this case, both the valid and the alert signals could be identified by the same method of the Iris Scan. In this situation, similar to example #1, only the first-time entry of identification would be needed..
- #3 - If an Iris Scan is used for first-time identification (either eye) as validation and there is not the possibility of using both eyes as in the example #2 above, then the second-time entering of another type for valid/alert such as a PIN number which would be additional validation...OR would be the alert signal. This example shows the use of two different methods, an Iris Scan and a PIN number, for the valid/alert signal combination. In this situation, an indicator would be in the user profile to signal that a second-time entry is also required.
- #4 - Indication of a requirement for the need for a second ID might also be appropriate when a facial scan is used for first-time identification. In this situation, a second-time identification entry would be required. The second could be entering of a valid/alert PIN number or thumb print (right for valid, left for alert, or vice versa).

RECAP

The above examples show just some of how the same and/or different methods would be used for each validation. The various combinations for control of the access would be the choice of the particular installation, network or company and would be stored with the user's profile. And there could be different combinations for the various users within the same installation, network, etc..

This methodology is applicable for ATM transactions, controlled access to secured areas, validation of computer logons, and all other activities that require a security access with the option of signalling an alert.

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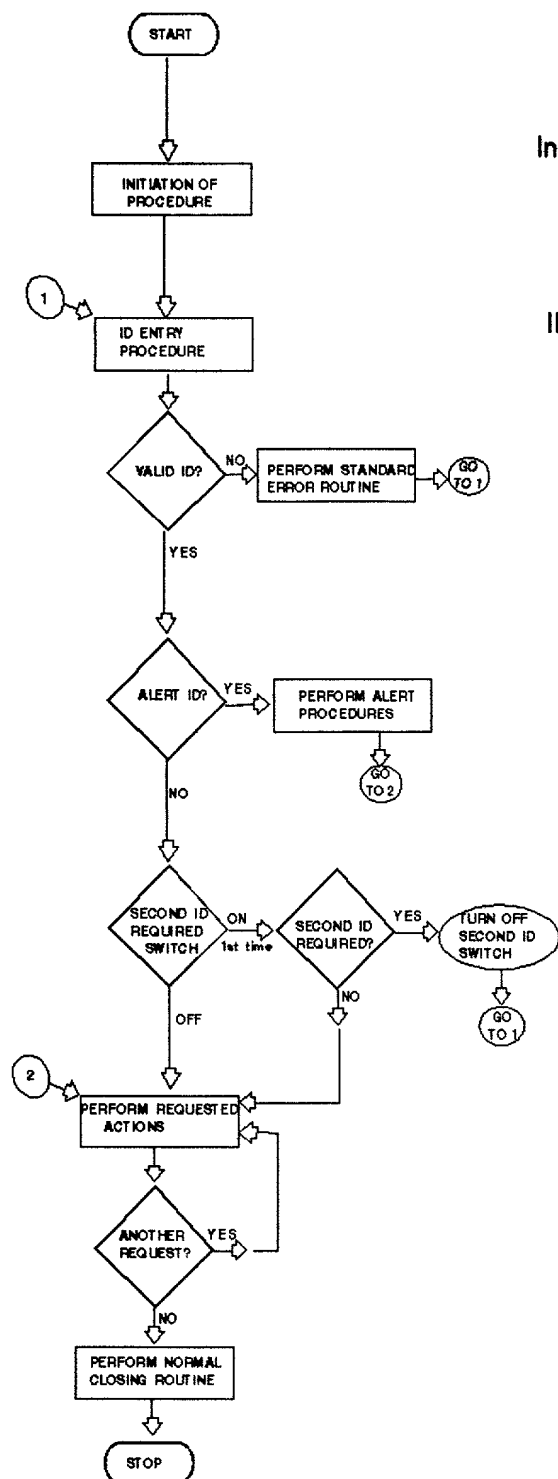


ATM/ALERT™

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SCHEMATIC

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Initiated by : Insertion of ATM card
Pressing a 'start' button/key
Approach an 'entry' zone....etc.

ID entered by 'PIN' number, IRIS scan,
thumb print...etc

Valid ID? Recognizable as belonging
to an individual? Both 'good' ID or
'alert' must pass this test..or re-enter ID

ALERT ID signals the performance of
the alarm procedures..probable silent.
Then the normal procedures must be
performed to give appearance of
'normal' conditions.

Second ID check switch is 'ON' at first
and second ID switch required is
indicated in user profile. If needed,
switch is turned 'off' to allow for further
check and additional ID entry is
requested.

Perform requested action..ATM
transaction, Security door entry, etc.

In some types of requested actions, a
second request is valid...Such as
another ATM transaction, etc.

Perform associated closing actions
such as an audit log recording,
security log entry, etc.



*
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*

* ATM/ALERT IS A PROCEDURE THAT HAS TWO FUNCTIONS:
*

* 1 - TO RECOGNIZE A VALID IDENTIFICATION WHICH WILL
* ALLOW THE REQUESTED ACTION SUCH AS AN ATM
* TRANSACTION OR ACCESS TO A SECURITY AREA
* AND/OR
*

* 2 - TO RECOGNIZE AN 'ALERT' SIGNAL ISSUED BY THE USER
* WHO IS UNDER DURESS. THIS WILL THEN ACTIVATE
* SECURITY MEASURES SUCH AS A SILENT ALARM OR OTHER
* APPROPRIATE MEASURES. THE REQUESTED ACTION COULD
* ALSO BE ALLOWED TO PREVENT A WARNING THAT THE
* ALARM HAS BEEN ACTIVATED.
*

* * NOTE - THE ROUTINE 'READ-CUSTOMER-CARD' IS EXECUTED
* IN THE STANDARD ATM PROGRAM AND THEN CONTROL
* IS PASSED TO THIS MODULE.
*

RETURNR EQU 9
SAVE (14,12)
BALR 12,0
USING *,12
*

BACKCHN LA 5,SAVREG
ST 13,4(5)
ST 5,8(13)
LR 13,5
*

* NOTE - THIS CHECKIN PROCEDURE IS EXECUTED IN THE STANDARD
* PROCESSING PROGRAM ALREADY IN USE.
* THE ONLY CHANGES ARE TO PLACE A STATUS INDICATION
* IN THE HOLD FIELD(PINID) AND AN INDICATOR TO
* INDICATE IF A SECOND ID IS REQUIRED.
*

LA 1,PINID
LA 15,PINRTN EXTERNAL REFERENCE
BALR 14,15
*

CLC PINID,=C'AOKAY'
BE DOREQST
*

CLC PINID,=C'ERROR'

BE ERRORTN

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*

CLC PINID,=C'ALERT'

BE ALERTN

*

CKSECID CLC SECID,=C' '

BE DOREQST

*

* STANDARD ERROR ROUTINE

*

ERRORTN LA 15,STDERR EXTERNAL REFERENCE

BALR 14,15

*

* DO THE STANDARD REQUEST

*

DOREQST MVC REQIND,=C' '

LA 1,REQIND

LA 15,DOREQ EXTERNAL REFERENCE

BALR 14,15

*

CLC REQIND,=C'MORE'

BE DOREQST

*

***** LM 13,4(13),12 RETRUN DOES THIS <<<<<<<<<

FINAL RETURN (14,12),RC=0

*

*

* ATM ALERT ROUTINES

*

ALERTN LA 15,PICRTN PICTURE RTN - EXTERNAL REFERENCE

BALR 14,15

*

LA 15,ALARMRTN ...ALARM RTN-EXTERNAL REFERENCE

BALR 14,15

*

B DOREQST

*

* CONSTANTS AND SAVE AREAS

*

SAVREG DS 18F

*

REQIND DC CL5'

*

PINID DS CL5'

SECID DS CL1'X'

*

PINRTN DC V(PINRTNX)
PICRTN DC V(PICRTNX)
STDERR DC V(STDERRX)
DOREQ DC V(DOREQX)
ALARMRTN DC V(ALARMX)
END

pg 3 of 3

ID DIVISION.

pg 1 of 3



PROGRAM-ID. ATMALERT.

* REMARKS.

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*

* ATM/ALERT IS A PROCEDURE THAT HAS TWO FUNCTIONS:

* 1 - TO RECOGNIZE A VALID IDENTIFICATION WHICH WILL

* ALLOW THE REQUESTED ACTION SUCH AS AN ATM

* TRANSACTION OR ACCESS TO A SECURITY AREA

* AND/OR

* 2 - TO RECOGNIZE AN 'ALERT' SIGNAL ISSUED BY THE USER

* WHO IS UNDER DURESS. THIS WILL THEN ACTIVATE

* SECURITY MEASURES SUCH AS A SILENT ALARM OR OTHER

* APPROPRIATE ACTION. THE REQUESTED ACTION COULD

* ALSO BE ALLOWED TO PREVENT A WARNING THAT THE

* ALARM HAS BEEN ACTIVATED.

*

* NOTE - THIS IS AN EXAMPLE OF MOST OF THE ACTIVITY BEING

* INITIATED BY THIS ALERT PROGRAM AND BEING

* PERFORMED IN THE STANDARD ACCESS PROCESSING

* PROGRAM.

*

* CONVERSELY, MOST OF THE ACTIVITY CAN BE PERFORMED IN

* THE STANDARD PROCESSING PROGRAM AND THE ALERT

* PROCEDURES CAN BE INCORPORATED INTO THE STANDARD

* PROGRAM. EITHER WAY, THERE IS VERY LITTLE

* RE-PROGRAMING REQUIRED.

*

ENVIRONMENT DIVISION.

*

DATA DIVISION.

WORKING-STORAGE SECTION.

01 ID-CODE.

02 ID-CODE-HOLD PIC XXXXX VALUE SPACES.

02 SECOND-ID-REQ-IND PIC X VALUE SPACE.

*

01 REQUEST-INDICATOR.

02 REQUEST-INDICATOR-HOLD PIC XXXX VALUE SPACES.

*

01 SECOND-ID-REQ-SW PIC X VALUE 'X'.

PROCEDURE DIVISION.

*

INITIATION-PROCEDURE.

*

* NOTE - THIS PROCEDURE EXECUTED IN THE STANDARD

* PROCESSING PROGRAM ALREADY IN USE. THUS, THERE
 * IS NO MAJOR CHANGE TO THE EXISTING CODE AT THIS
 * CONTROL, CAN BE THEN BE PASSED TO THIS MODULE
 *

* ALSO, AFTER EACH 'CALL' (PASSING CONTROL) TO THE
 * STANDARD PROGRAM FROM THIS MODULE, CONTROL IS
 * RETURNED TO THIS MODULE AFTER THE ROUTINE IS
 * COMPLETED IN THE STANDARD PROGRAM.
 *

ID-ENTRY-PROCEDURE.

CALL 'IDVALID' USING ID-CODE-HOLD.

*
 * NOTE - THIS CHECKING PROCEDURE IS EXECUTED IN THE STANDART
 * PROCESSING PROGRAM ALREADY IN USE.
 * THE ONLY CHANGES ARE TO PLACE A STATUS INDICATION IN
 * THE HOLD FIELD(ID-CODE) AND AN INDICATOR TO INDICATE
 * IF A SECOND ID IS REQUIRED.
 *

INDICATION	ACTION
AOKAY	HONOR THE CUSTOMERS REQUEST
ERROR	ID ERROR - ENTER ID AGAIN
ALERT	ACTIVATE THE ATM/ALERT ROUTINE
???	NO TECOGNIZED - ENTER ID AGAIN

IF ID-CODE-HOLD IS EQUAL TO 'AOKAY',
 GO TO CHECK-SECOND-ID.

IF ID-CODE-HOLD IS EQUAL TO 'ERROR',
 CALL 'STANDARD-ERROR-ROUTINE'.

IF ID-CODE-HOLD IS EQUAL TO 'ALERT',
 GO TO ATM-ALERT-ROUTINE. .

CHECK-SECOND-ID.

IF SECOND-ID-REQ-SW IS EQUAL TO SPACE
 GO TO PERFORM-REQUESTED-ACTION.

MOVE SPACE TO SECOND-ID-REQ-SW.
 GO TO ID-ENTRY-PROCEDURE.

PERFORM-REQUESTED-ACTION.

CALL 'REQACT' USING REQUEST-INDICATOR.

*
 * NOTE - THIS CHECKING PROCEDURE IS EXECUTED IN THE STANDARD
 * PROCESSING PROGRAM ALREADY IN USE.
 *

[illegible]

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
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**DECLARATION FOR UTILITY OR
DESIGN
PATENT APPLICATION
(37 CFR 1.63)**

☒ Declaration Submitted with Initial Filing OR ☐ Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)

Attorney Docket Number

First Named Inventor

COMPLETE IF KNOWN

Application Number

Filing Date

Group Art Unit

Examiner Name

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

ATM / ALERT

the specification of which

(Title of the Invention)

☒ is attached hereto
OR

☐ was filed on (MM/DD/YYYY)

as United States Application Number or PCT International

Application Number and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

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DECLARATION — Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application or PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

As a named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

☐ Customer Number

OR

☐ Registered practitioner(s) name/registration number listed below

Place Customer Number Bar Code Label here

Name	Registration Number	Name	Registration Number

☐ Additional registered practitioner(s) named on supplemental Registered Practitioner Information sheet PTO/SB/02C attached hereto.

Direct all correspondence to: ☐ Customer Number or Bar Code Label OR ☒ Correspondence address below

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Address					
City	MEDFORD	State	NJ	ZIP	08055
Country	USA	Telephone	(609) 654-4583	Fax	(609) 714-0868

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor: ☐ A petition has been filed for this unsigned inventor

Given Name (first and middle (if any))		Family Name or Surname	
J. MICHAEL		PITALE	
Inventor's Signature	[Signature]		Date
			2/2/2000
Residence: City	MEDFORD	State	NJ
		Country	USA
Post Office Address	24 SHANNON COURT		
Post Office Address			
City	MEDFORD	State	NJ
		ZIP	08055
		Country	USA

☐ Additional inventors are being named on the _____ supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto